

## **Chapter 2**

### **Armor Weapon Systems**

#### **Section I**

##### **Introduction**

###### **2-1. Standards, strategies, and requirements**

- a. This chapter provides weapons standards, training strategies, and resource requirements for the M1, M1A1/ M1A1-D and M1A2/M1A2 SEP tanks in armor battalions, divisional cavalry squadrons, armored cavalry squadrons, and brigade reconnaissance troops. The training programs provided have been specifically designed for each weapon system at three different training readiness conditions (TRC) as appropriate. Each program contains a standard and suggested strategy which outlines the training sequence, including frequencies for device usage, live and subcaliber fire. Table 2-1 is an index of weapons and weapon systems for which training programs have been written and approved.
- b. The objective is to assist field commanders in attaining and sustaining the standards as stated for each TRC and to ensure acceptable levels of weapons proficiency throughout all Armor and Cavalry units.
- c. The training strategies in this chapter are based on exercises in the FM 17-12-1-1/2 (dated 5 May 98) and FM 17-12-8 (dated 6 Feb 99). Resultant strategies include coordination with Armor units worldwide. The specifics of each exercise will not be presented here; the appropriate manual will have to be consulted.

###### **2-2. Training Aids, Devices, Simulators And Simulations (TADSS).**

- a. **Objective.** The objective of training devices is to increase combat readiness by providing greater, more effective training opportunities while saving or avoiding training costs.
- b. **General.** The use of training devices enhances the combat readiness, training standardization, repetition, and retention of knowledge.
- c. **Specific Armor Training Devices and Simulators.** The devices and simulators described in "d." through "k." below are fully integrated into the gunnery training strategies. Main gun ammunition allocations are to support qualification, The only exceptions are for proofing/calibration and crew pre-qualification at Table VII.
- d. **Conduct-of-Fire Trainer (COFT).** The COFT (for M1 and M1A1/M1A1-D) and the Advanced Gunnery Training System (AGTS) (for M1A2/M1A2 SEP) enable the training of tank commander and gunner teams on simulated target engagements in the virtual environment. The simulator provides training on engagements equivalent to those found in the FM 17-12 series gunnery tables as well as more advanced training scenarios. COFT/AGTS Minimum Proficiency Level Goals for Active Component are listed in (1) through (4) below and those for Reserve Component (5).

(1) New crews training toward the minimum proficiency level must be given priority for COFT (M1/M1A1) / AGTS (M1A2) training time. It is

imperative that, a new crew receive approximately 10 hours of intensive training when initially entering the COFT training matrix. The goal is to complete Reticle Aim group 2 of the COFT/AGTS matrix during the first week of COFT training.

(2) Subsequent Proficiency Level Goals. After a crew completes Reticle Aim group 2, their training time can be four to six hours per month until prerequisites to live fire is achieved. At this frequency, crews should attain the following proficiency levels in the time frame shown.

Time	Goal
2 to 3 months	Complete group 1 Advanced matrix and gate to live fire
4 to 9 months	Complete group 2 Advanced matrix
9 to 12 months	Complete group 3 Advanced matrix
12 months +	Sustainment Advanced matrix

(3) COFT Prerequisites for Live Fire:

(a) New crews/teams should progress through the original matrix and complete Reticle Aim 15 prior to transitioning to the Advanced Matrix in the UCOFT. The crew will complete exercises 101 through 120 and conduct the gate test that is selected at random by the computer (exercises 130-145). Completing the gate exercise insures the crew has mastered the gunnery skills related to range firing.

(b) Sustainment crews will fire the following exercises:

201-214 Combat Gunnery Skills

301-314 Advanced Combat Gunnery Skills

401-412 Sustainment Gunnery Skills

(4) Advanced Gunnery Training System (AGTS) Prerequisites for Live Fire:

(a) AGTS uses a matrix similar to the U-COFT Advanced matrix.

(b) Prerequisites for Live Fire are completion of the Basic Pre-live fire exercises and a passing score IAW FM 17-12-1-1/-2 (dated 5 May 98).

(c) TRC B/C. The Mobile Conduct-of-Fire Trainer (M-COFT) should also be integrated with other training devices such as Abrams Full-Crew Interactive Simulation Trainer (Abrams FIST I), or TWGSS/TSV to work on identified skill weaknesses (e.g. target hand off, tracking, range estimation, etc.). Use COFT for training Gunnery Tables II and III and to prepare for follow-on M-COFT sessions.

**e. Tank Weapons Gunnery Simulation System (TWGSS).** TWGSS is a vehicle-appended precision gunnery training system that simulates main gun and coax machinegun firing for the M1, M1A1 and M1A2 tanks. It interfaces

with the vehicle fire control system and permits precision and degraded-mode gunnery training. A simulated tracer and impact burst is superimposed in the sights as the actual round would fly and impact. TWGSS collects actual Gunner / TC gunnery events to be utilized during the individual AAR. TWGSS is interoperable with PGS, MILES, TSV, LTIDS and ITIGS. TWGSS also provides target tracking training, 1/2 and 1/10 scale gunnery training and should be used for force on force training to reinforce gunnery skills learned during gunnery training.

**f. Thru-Sight Video (TSV).** TSV is a vehicle-appended system that records crew audio and the gunner's sight picture on Abrams-series tanks and Bradley-series vehicles. The system consists of an on-vehicle video and audio recording package and an off-vehicle AAR substation. The system makes a video recording of the gunner's sight picture. It shows the date and time and marks the video at the instant the trigger is activated.

**g. Laser Target Interface Device (LTID).** The LTID permits TWGSS or MILES laser beams to activate target scoring mechanisms.

**h. Caliber .50 Tank Inbore Subcaliber Device.** The Caliber .50 Tank Inbore Subcaliber Device is used on M1, M1A1 and M1A2 tanks to engage full-scale and half-scale targets on a full-scale range. This device consists of a bolt-action, single-shot, rifle-type breech mechanism which attaches to a modified M2 machine gun barrel that mounts inside a 105mm/120mm gun tube. The ammunition for the inbore device is the SLAP-T round (DODIC: AA38) which may be found in crew table VI for TRC B/C and platoon level table XI for TRC A. Primarily, this device is to be used by units without TWGSS and its use is resourced for Gunnery Table VI or XI, as applicable.

**i. Abrams Full-Crew Interactive Simulation Trainer (Abrams FIST).** Abrams FIST I is a tank-appended training device for use by ARNG components in their local armories. Abrams FIST I provides interactive, full-crew M1 and M1A1 tank training procedures. Upgrades are being considered for the Abrams FIST to replace the M-COFT as a less expensive trainer for each armory with a tank available to append the device. The M-COFT would continue to be used by units without AFIST I and without a tank at their Armory.

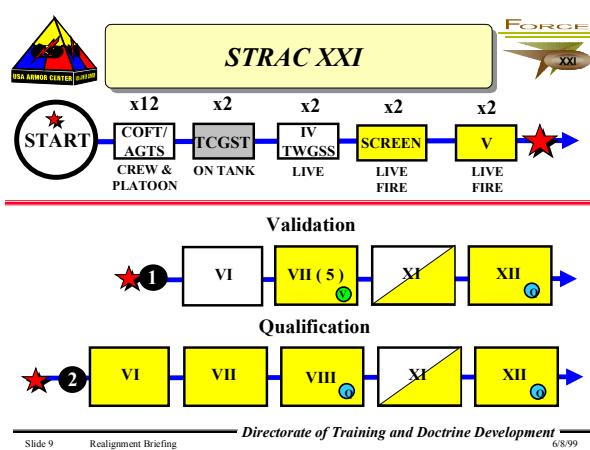
## **Section II**

### **Training Programs**

#### **2-3. General**

Training programs have been developed for each TRC level. Armor weapon systems training programs are identified in table 2-1. The standard is stated at the beginning of each program. The tank crew training strategy is given first; then collective training for the tank platoon and tank company follows. Proficiency is achieved through the use of virtual simulation (e.g. COFT/AGTS, Abrams FIST) and live simulation (e.g. TWGSS, TSV and full-caliber ammunition). Ammunition resources for each TRC level and associated standards are presented in the commander's worksheets. These programs are based on the assumption that training events will be spaced at uniform intervals throughout the training year.

## 2-4. Purpose and objective of the training programs



### STRAC XXI

**Purpose.** STRAC XXI is developing strategies to support the way we train to fight today. Ammunition resources will be allocated based on unit mission because one training strategy does not fit all units and their METL/METT-T. (Cold War Strategy). The strategy allows commanders to determine which crews will validate and which crews will qualify. The purpose of STRAC XXI is to allow commander's the flexibility to manage the main gun rounds from

Gunnery Tables VII and VIII on validating crews to higher collective gunnery tables. The Validation track may be used for crews which are currently qualified and will remain qualified until the next scheduled gunnery density. Validating crews, at the discretion of the commander, would fire 5 tasks on Gunnery Table VII, go to Gunnery Table XI (TWGSS or Inbore Device) and fire Gunnery Table XII with main gun rounds. The validated crew's Gunnery Table VIII rounds would be allocated to CALFEX or a second Gunnery Table XII; again, at the commander's discretion. New crews or crews in which the TC/GNNR have not qualified Gunnery Table VIII together would fire the traditional Qualification track.

**b. Commander Flexibility.** STRAC XXI ensures commanders have the authority and flexibility for training design and decision making. It maximizes the use of simulations to sustain baseline individual/crew proficiency and allows the commander to reallocate ammunition for collective training. STRAC XXI recognizes that units have individuals/crews with varying training needs and allows commanders several methods of qualifying/validating crews.

**c. Sustainment.** STRAC XXI provides a method for attaining and sustaining weapons proficiency throughout the training year. STRAC XXI ensures that all crews and platoons in a battalion or squadron are adequately trained and able to sustain weapons proficiency.

## 2-5. STRAC XXI Unit Collective/Combined Arms Training Policy

**a. Keep Simulation-Generated Savings.** The commander is authorized to retain ammunition that was allocated under STRAC which may be in surplus when previously qualified crews must validate gunnery skills in the virtual domain.

**b. Redistribution of Ammunition Assets.** Commanders may use this surplus ammunition to execute collective tasks within those events not previously resourced by STRAC or those currently under-resourced by STRAC. Such events include the Co/Tm CALFEX and the Bn/Tf CALFEX.

## **2-6. Program for M1 tank units at NGB Units**

M1 tanks are fielded only to Army National Guard units at TRC C level. Therefore, the NGB tank battalions and NGB Separate Cavalry Troops are resourced to standards and strategies set forth in NGB Tables for TRC B and C. Qualification guidelines parallel those for TRC B or TRC C listed in paragraphs 2-7b and 2-7c.

a. Standard. TC/GNR combination will conduct M-COFT training every other month (Bn average four hours per crew every other month). Crews will conduct Gunnery Table IV/ Tank Crew Proficiency Course (TCPC) sustainment training at least twice per gunnery year and once per maneuver year. Crews will conduct Gunnery Table VIII once every two years. The goal is for 100% of crews to qualify on this table. The minimum standard is 75% of the assigned crews will qualify on this table.

b. Training Strategy. The ammunition requirements for crew/platoon and unit training strategies are given in tables 2-2 through 2-4 (gunnery year) and 2-5 through 2-7 (maneuver year). Units equipped with TWGSS will use table 2-8 through 2-13. Combat training of reserve units is accomplished through the execution of a 3-phase Interlocking Training Strategy that consists of Garrison Training Area, Local Training Area and Major Training Area events. Basic skills are taught at the garrison level through the use of the Abrams FIST I, M-COFT and TWGSS. Intermediate skills, taught in the LTA, include execution of Gunnery Table IV/TCPC using TWGSS or limited subcaliber training (if the LTA facility supports subcaliber firing). Qualification is conducted at the MTA. The unit training strategy is outlined in tables within this chapter.

## **2-7. Program for M1A1/M1A1-D and M1A2/M1A2 SEP tank units**

### **a. TRC A. Active Component Tank Units.**

(1) Standard. Crews will conduct Gunnery Table IV/TCPC semi-annually using TWGSS. The goal for gunnery is 100% qualification on Tank Table VIII and Platoon qualification Tank Table XII. The minimum standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crews must have qualified through Gunnery Table VIII. A qualified crew is a Tank Commander and Gunner combination that has met Gunnery Table VIII standards together within the past 12 months. All crews firing Gunnery Table XII must be qualified on Gunnery Table VIII within 12 months. Additionally, using the STRAC XXI methodology described above, crews which will not lose their qualified status before the next gunnery (Qualified together in past 12 months) and as a minimum qualify (Q1) live fire TT VII tasks A-2,A-4,A-5,B-1 and B-3 within 6 months. This allows the transfer of rounds from the qualified crews for CALFEX. Units without TWGSS, will be resourced SLAP-T ammunition for use in the Caliber .50 inbore device for Table XI.

(2) Platoons will conduct Gunnery Table XII at least once a year. The qualification levels are:

- (a) 10 of 12 platoons in a non-LCDXXI (58 tank) force structure.
- (b) 7 of 9 platoons in a tank battalion

- (c) 7 of 9 tank platoons in an ACR
- (d) 5 of 6 tank platoons in a divisional cavalry squadron.

A qualified platoon consists of a platoon sergeant and platoon leader combination who have qualified TT XII together within the past 12 months. Company Teams / Cavalry troops will conduct a CALFEX annually. The goal for CALFEX is 100% T/ P ratings on tactical tasks and 100% target destruction on live fire tasks. Prerequisites for CALFEX are that all participating platoons be qualified on GT XII within the preceding 12 months.

(3) Training strategy. The ammunition requirements for crew/platoon and unit training strategies are given in tables identified in this chapter. Unit commanders and master gunners must plan their gunnery training to take full advantage of the 106 round strategy. Units will use the 5 rounds allocated and all remaining ammunition to conduct a CALFEX based on their mission and METL.

#### **b. TRC B. Enhanced Brigades**

(1) Standard. The minimum standard at the conclusion of the annual gunnery density described in the gunnery strategy is 85 % of the assigned crews will have qualified on Gunnery Table VIII. A qualified crew is a Tank Commander and Gunner combination that met Gunnery Table VIII standards together within the past 12 months.

(2) Training Strategy. The ammunition requirements for crew and unit training strategies are given in tables located in this chapter. Tables are provided for units equipped with TWGSS as well as those units without TWGSS. Combat training of RC units is accomplished through the execution of a 3-phase Interlocking Training Strategy that consists of: Garrison Training Area, Local Training Area and Major Training Area. Basic skills are taught at the garrison level, through execution of TCPC, and through the use of the TCPC, Abrams FIST, M-COFT, CAL.50 and TWGSS. The M1A1 M-COFT utilization strategy is provided in FM 17-12-7 (dated xx/xx/xx). Intermediate skills are taught in the using TWGSS or Cal .50 Inbore Device. Qualification is conducted at the MTA. Units without TWGSS, will be resourced SLAP-T ammunition for use in the Caliber .50 inbore device for Table VI.

#### **c. TRC C. ARNG Divisional Units**

(1) Standard. Crews (TC/Gunner combinations) will conduct M-COFT training every other month (Bn average four hours per crew every other month). Crews will conduct TCPC at least twice per gunnery year and once per maneuver year. Crews will conduct Gunnery Table VIII once every 2 years. The goal is for 100% of crews to qualify on Gunnery Table VIII. The minimum standard is 75 % of the assigned crews will qualify on this table. A qualified crew consists of the TC/Gunner combination that has qualified TT VIII within the last 24 months.

(2) Training Strategy. For units without TWGSS, the ammunition requirements for crew and unit training strategies are given in tables located in this chapter for (gunnery year) and (maneuver year). Units equipped with TWGSS will use another set of tables for (gunnery year) and (maneuver gunnery). Combat training of RC units is accomplished through the execution of a 3-phase Interlocking Training Strategy that consists

of Garrison Training Area, LTA and MTA events. Basic skills, including TCPC, are taught at the garrison level through the use of Abrams FIST I, M-COFT, and TWGSS. The M1A1 M-COFT utilization strategy is provided in FM 17-12-7. Intermediate skills are taught in the LTA using TWGSS or dry. Qualification is conducted at the MTA. Units without TWGSS will be resourced SLAP-T ammunition for use in the Caliber .50 inbore device for Tables VI.

**2-8. STRAC XXI Methodology And Interim Strategy.** The 106 Main Gun Round Strategy identifies the STRAC XXI strategy necessary to meet the current doctrinally based training requirements. Eventually non-LCDXXI units will use STRAC XXI methodology to maintain qualification. Until then, for non-LCDXXI units, which are resourced to a 90 Round Strategy, commanders must discretely conserve ammunition gained on tables where proficiency exists. This saved ammunition may be used, at commander's discretion, to supplement tables with lower proficiency and/or to make it possible to conduct live CALFEX, which is resourced 5 rounds under STRAC XXI.

**2-9. Bradley Cavalry fighting vehicle (M3).** The following standards are for each TRC. Recommended training strategies and ammunition resources are given in tables attached.

**TRC A. Active Component Bradley Cavalry fighting vehicle (M3).**

Attached is the ammunition requirements for TRC A, TRC B, and TRC C.

**(1) TRC A standard.** Eighty-five percent of the assigned crews will qualify on Bradley Table VIIIA/B, two times per year. Eighty-five percent of sections within ACR and divisional Cavalry squadrons will qualify on Bradley Table X A/B two times per year. All tables will be executed in accordance with FM 23-1.

**Note.** Cavalry/Scout units equipped with PGS will be allocated ammunition for only one iteration of BT IX and BT X. The second iteration will be conducted with the PGS.

**(2) TRC B standard.** Sixty-six percent of the assigned Scout platoon crews will qualify on Bradley Table VIIA/B once during each training year. Units with M-COFT will conduct MCIFI training (troops average four hours per crew every other month).

**(3) TRC C standard.** Fifty percent of assigned crews will qualify on Table VIIIA/B every other training year. All sections will participate in an EXEVAL every other training year.

**(c) Phase If (SL3 qualification).** CMF 19D (D3) personnel who will graduate from 19D (D3) BNCOC (USAARMC) or from USAR BNCOC and either the Scout Commander's Certification Course (USAARMC) or 19D (D3) SOYr.

**(d) Phase III (sustainment training).** Each M3 commander (SL 3/ 4) will participate in the annual sustainment training outlined in tables attached. Crews for these Bradley commanders will be formed from available cadre. Whenever possible, skill level 1 and 2 personnel will be used as crew members, as this training will provide their primary MOS specific gunnery training. Each M3 commander (SL 3/4) will participate in the live-fire training outlined in table 5-15 every three years. Crews for these Bradley commanders will be formed from available cadre. Whenever possible, skill level 1 and 2 personnel will

be used as crew members, as this training will provide their primary live-fire gunnery training.

(e) **Ammunition requirements.** Ammunition requirements for sustainment are based on individual Bradley commanders to be trained. These requirements are given in tables attached.

## 2-10. Program for Brigade Reconnaissance Troops (BRT)

### TRC A. Active Component HMMWV-Equipped Units in BRT.

#### (1) Standard.

(a) MK 19: For HMMWV scouts, 90% of gunners will meet standards within past 6 months. In addition, 90% of the assistant gunners will meet standards within past 12 months. Each gunner will participate in: Squad LFX within past 3 months; and the Co or Bn FTX within past 6 months.

(b) M240B MG: For HMMWV scouts, 90% of assigned M240B will qualify as machine gunners within past 6 months. The assistant machine gunners will qualify within last year. Each gunner will participate in LFX within past 3 months and will participate in the platoon EXEVAL within past 6 months.

(c) MG M2 HB: For HMMWV scouts, 90% of assigned will qualify as machine gunners within past 12 months. The assistant machine gunners:

(2) Training strategy. The ammunition requirements for crew/platoon and unit training strategies are given in tables identified in this chapter. Unit commanders and master gunners must plan their gunnery training to take full advantage of the existing strategy.

**2-11. STRAC XXI Concept.** The STRAC XXI concept entails a resourcing strategy where the commanders train their units within resourcing guidelines beginning with a crew level training. Next there is platoon level training with resourcing guidelines for a different set of training events. Finally, there are company and troop level events that train units to an even higher level proficiency using established resourcing guidelines. The units would then go through the CAALS process, which further enhances proficiency by taking "saved" rounds to reinforce events such as CALFEX, and maximize sustainment through crew validations and qualification.



W  
C  
E  
R  
T  
A  
N  
I  
A



# Crew Level Annual Training Strategy

Table	Freq	TPDS-T	TP-T	7.62	CAL .50	7.62 BLK	H OFF-MAN
COFT	12	0	0	0	0	0	0
TCGST	2	0	0	0	0	0	0
TCPC	2	TWGSS	TWGSS	0	0	100	17
V	2	0	0	500	200	0	10
SCREEN	2	2	2	100	100	0	0
VI	2	TWGSS	TWGSS	0	0	0	12
VII	2	9	6	400	100	0	32
VIII	2	18	6	350	100	0	34
Tank Bn	2552	1232	118800	44000	8800	9240	
Div Cav	1566	756	72900	27000	5400	5670	
Arm Cav	2378	1148	110700	41000	8200	8610	
DODIC		C785	C784	A131	A557	A111	L602

## TRAINING STANDARD

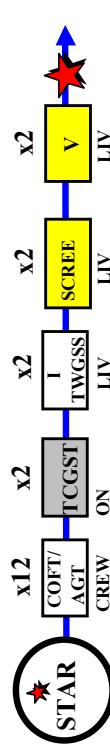
- Crews will conduct Gunnery Table IV/TCPC semi-annually using TWGSS. The goal is for 100% of crews to qualify on Gunnery Table VIII and Gunnery Table XII.

- The minimum standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crews must have qualified through Gunnery Table VIII. A qualified crew is a Tank Commander and Gunner combination that has met Gunnery Table VIII standards together within the past 12 months.

- All crews firing Gunnery Table XII must be qualified on Gunnery Table VII. Platoons will conduct Gunnery Table XII at least once a year. The qualification levels are:
  - 7 of 9 platoons in a tank battalion
  - 7 of 9 tank platoons in an ACR
  - 3 of 4 tank platoons in a divisional

- Units will only be resourced at 98 rounds until 2003. The strategy calls for 106 rounds. Therefore unit commanders and master gunner personnel should focus on qualifying crews, then platoons, and then companies. Additionally, MACOM ammo managers can work to obtain additional main gun rounds through the CAAIS process.

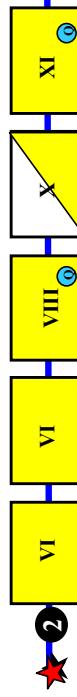
Table 2-1 STRAC XXXI for  
MIA1/A2 Series Tank Battalion w/TWGSS TRCA



## Validation



## Qualification



Talk Play Learn

4  
3  
2  
1

# Platoon Level Training Strategy

Table	Crews	Crews	Crews	Freq	TPDS-T	SLAP_T	7.62	CAL .50	RED PHOS	7.62 BLK	CAL .50 BLK	HOFF-MAN
XI	27	41	44	1	TWGSS	40	0	0	0	200	100	20
XII	27	41	44	1	TWGSS	0	200	100	4	0	0	20
Tank Bn					660	1760	8800	4400	176	8800	4400	1760
Div Cav					405	1080	5400	2700	108	5400	2700	1080
Arm Cav					615	1640	8200	4100	164	8200	4100	1640
DODIC					C785	AA38	A131	A557	G978	A111	A598	L602

## TRAINING STANDARD

- Crews will conduct Gunnery Table IV/TCP/C semi-annually using TWGSS. The goal is for 100% of crews to qualify on Gunnery Table VIII and Gunnery Table XII.

- The minimum standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crews must have qualified through Gunnery Table VIII. A qualified crew is a Tank Commander and Gunner combination that has met Gunnery Table VIII standards together within the past 12 months.

- All crews firing Gunnery Table XII must be qualified on Gunnery Table VIII. Platoons will conduct Gunnery Table XII at least once a year. The qualification levels are:
  - (a) 7 of 9 platoons in a tank battalion
  - (b) 7 of 9 tank platoons in an ACR
  - (c) 3 of 4 tank platoons in a divisional

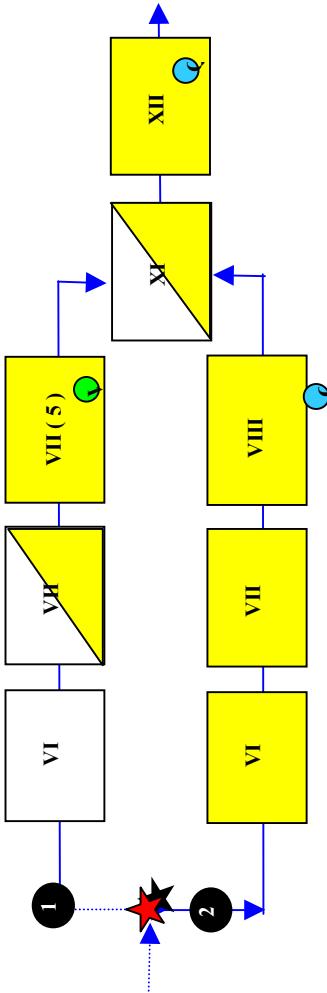
- Units will only be resourced at 98 rounds until 2003. The strategy calls for 106 rounds. Therefore unit commanders and master gunner personnel should focus on qualifying crews, then platoons, and then companies. Additionally, MACOM ammo managers can work to obtain additional main gun rounds through the CAALS process.



Table 2-2 STRAC XXI for M1A1/A2 Series Tank Battalion w/TWGSS    TRCA   

Platoon Level Path Qualification Training

Verification





# Company Level Annual Training Strategy (TWGSS)

Table	Crews	Crews	Crews	Freq	TPDS-T	7.62 M	CAL .50	7.62 BLK	CAL .50	HOFF-MAN
CALFEX	27	41	42	1	5	200	200	0	0	20
BNSQ FT	27	41	44	2	0	0	200	200	100	18
CO/TRP F	27	39	42	2	0	0	400	400	100	36
PLT FTX	24	36	36	4	0	0	200	200	100	18
BNSQ FC	3	5	17	2	0	0	0	0	0	8
CO/TRP F	12	17	15	2	0	0	0	0	0	8
Tank Bn				210	8400	8400	46400	23200	5528	
Div Cav				135	5400	5400	30000	15000	3480	
Arm Cav				205	8200	8200	45200	22600	5240	
DODIC				C785	A131	A557	A111	A598	L602	

## TRAINING STANDARD

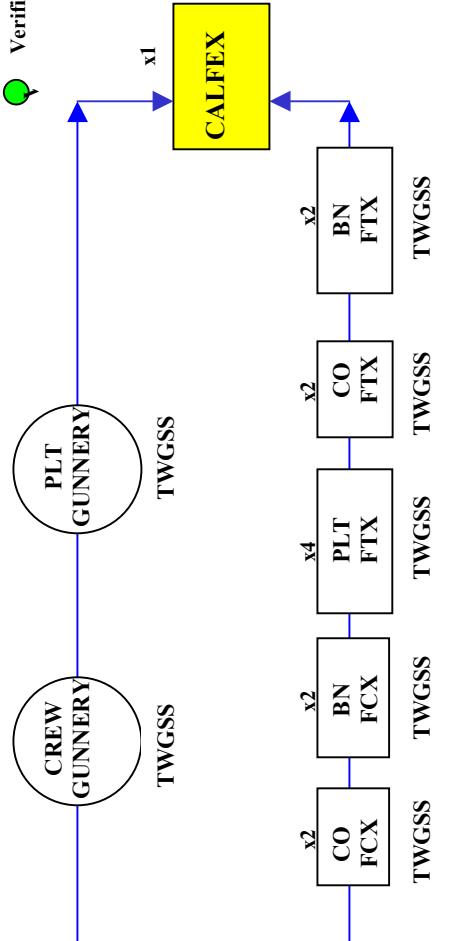
- Crews will conduct Gunnery Table IV/TCP semi-annually using TWGSS. The goal is for 100% of crews to qualify on Gunnery Table VIII and Gunnery Table XII.

- The minimum standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crews must have qualified through Gunnery Table VIII. A qualified crew is a Tank Commander and Gunner combination that has met Gunnery Table VIII standards together within the past 12 months.

- All crews firing Gunnery Table XII must be qualified on Gunnery Table VIII. Platoons will conduct Gunnery Table XII at least once a year. The qualification levels are:

- 7 of 9 platoons in a tank battalion
- 7 of 9 tank platoons in an ACR
- 3 of 4 tank platoons in a divisional

Table 2-3 STRAC XXI for M1A1/A2 Series Tank Battalion w/TWGSS TRCA



- Units will only be resourced at 98 rounds until 2003. The strategy calls for 106 rounds. Therefore unit commanders and master gunner personnel should focus on qualifying crews, then platoons, and then companies. Additionally, MACOM ammo managers can work to obtain additional main gun rounds through the CAALS process.

# Roll-Up TRCA

**Table 2-4 M1A1/M1A2 SERIES (TRC A) - TK BN**

Event/Table	Frequency	HEAT-TP-T		MPAT-TP-T		7.62 MM		CAL 0.50		SLAP-T		RED PHOS		CAL 0.50 BLANK		HOFFMAN	
		TPCSDS-T	C785	C784	NA	A131	A557	AA38	G978	A111	A598	L602	7.62 MM BLANK	CAL 0.50 BLANK	A598	L602	
DODIC																	
COFT	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TCGST	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TCPC	2	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	100	0	0	0	17
V	2	0	0	0	500	200	0	0	0	0	0	0	0	0	0	0	10
SCREENING	2	2	2	2	100	100	0	0	0	0	0	0	0	0	0	0	0
VI	2	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	0	0	0	0	12
VII	2	9	6	6	400	100	0	0	0	0	0	0	0	0	0	0	32
VIII	2	18	6	6	350	100	0	0	0	0	0	0	0	0	0	0	34
XI	1	TWGSS	TWGSS	TWGSS	0	0	40	0	0	200	0	200	100	100	100	100	20
XII	1	15	0	0	200	100	0	0	0	0	0	0	0	0	0	0	20
CALFEX	1	5	0	0	200	200	0	4	0	0	0	0	0	0	0	0	20
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BNSQ FTX	2	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	200	100	100	100	18
CO/TRP FTX	2	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	400	100	100	100	100	36
PLT FTX	4	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	400	100	100	100	100	18
BNSQ FCX	2	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	0	0	0	0	8
CO/TRP FCX	2	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	0	0	0	0	8
TANK	3422	1232	1232	136000	56800	1760	168	126400	81600	108	108	36000	23100	12174	34500	18298	19552
DIV CAV	2106	756	756	83700	35100	1080	164	121600	164	164	164	34500	34500	34500	34500	34500	18298
ARM CAV	3198	1148	1148	127100	53300	1640	164	121600	164	164	164	34500	34500	34500	34500	34500	18298

WAN  
GEN  
TANK

BB  
G  
PAK

Crew Level Annual Training Strategy (TWGSS)

Table	Freq	TPDS-T	TP-T	SLAP_T	7.62	CAL_50	7.62 BLK	HOFF-MAN
COFT	6	0	0	0	0	0	0	0
AFIST	12	0	0	0	0	0	0	0
TCGST	2	0	0	0	0	0	0	0
TCPC	2	TWGSS	TWGSS	0	0	100	17	
V	1	0	0	0	500	200	0	10
SCREEN	1	2	2	0	100	100	0	0
VI	1	TWGSS	TWGSS	20	0	0	0	12
VII	1	9	6	0	400	100	0	32
VIII	1	18	6	0	350	100	0	34
Tank Bn	1276	616	880	59400	22000	8800	5368	
Div Cav	783	378	540	36450	13500	5400	3294	
Arm Cav	1189	574	820	55350	20500	8200	5002	
DODIC	C785	C784	AA38	A131	A557	A111	L602	

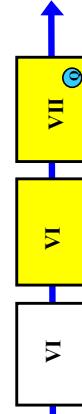
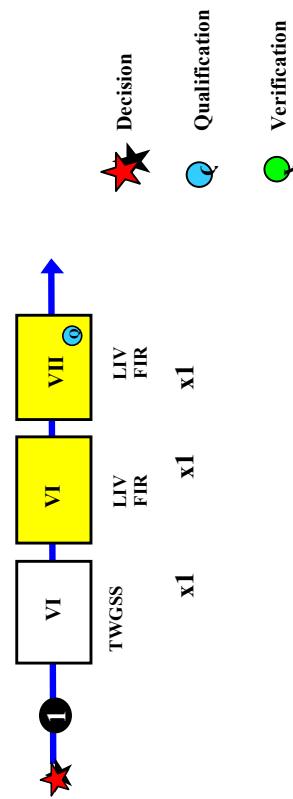
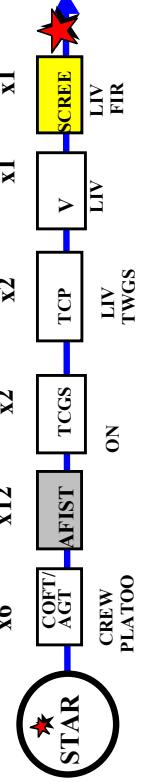
## TRAINING STANDARD

- The minimum TRC B standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crews must have qualified through Gunnery Table VIII.

- A qualified crew is a Tank Commander and Gunner combination that has met Gunnery Table VIII standards together within the past 12 months.

- All crews firing Gunnery Table XII must be qualified on Gunnery Table VII

**Table 2-5 STRAC XXI for M1A1/A2 Series Tank Battalion w/TWGSS TRC B**



Tanacom  
Tanacom

# Company Level Annual Training Strategy (TWGSS)

Table	Freq	TPDS-T	7.62 M	CAL .50	7.62 BLK	CAL .50 BLK	HOFF-MAN
BNSQ FT	0	0	0	0	0	0	0
CO/TRP F	0	0	0	0	0	0	0
PLT FTX	1	0	0	400	100	18	
BNSQ FC	0	0	0	0	0	0	0
CO/TRP F	0	0	0	0	0	0	0
Tank Bn		0	0	0	0	0	0
Div Cav		0	0	14400	3600	648	
Arm Cav		0	0	0	9600	2400	432
DODIC		C785	A131	A557	A111	A598	L602

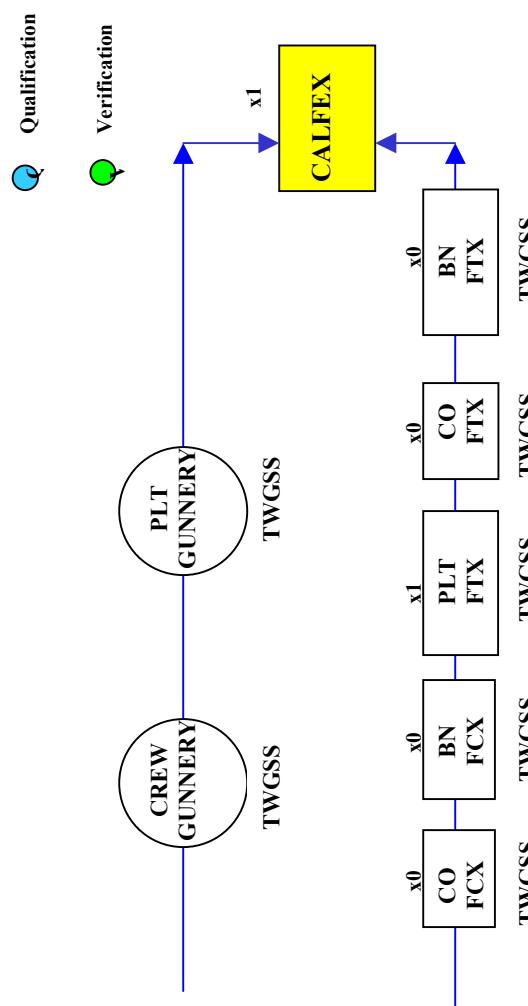
## TRAINING STANDARD

- Crews will conduct Gunnery Table IV/TCPC semi-annually using TWGSS. The goal is for 100% of crews to qualify on Gunnery Table VIII and Gunnery Table XII.

- The minimum standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crews must have qualified through Gunnery Table VIII. A qualified crew is a Tank Commander and Gunner combination that has met Gunnery Table VIII standards together within the past 12 months.

- All crews firing Gunnery Table XII must be qualified on Gunnery Table VIII. Platoons will conduct Gunnery Table XII at least once a year. The qualification levels are:
  - (a) 7 of 9 platoons in a tank battalion
  - (b) 7 of 9 tank platoons in an ACR
  - (c) 3 of 4 tank platoons in a divisional

Table 2-6 STRAC XXI for M1A1/A2 Series Tank Battalion w/TWGSS TRCA



- Decision
- Qualification
- Verification

# Roll-Up TRCB

**Table 2-7 M1A1/M1A2 SERIES (TRC B) - TK BN**

Event/Table		Frequency		HEAT-TP-T		MPAT-TP-T		7.62 MM		CAL 0.50		SLAP-T		RED PHOS		HOFFMAN	
DODIC	C785	C784	NA	A131	A557	A438	G978	A111	A598	A598	A111	G978	A438	A111	A598	L602	
COFT	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ABRAMS FISTI	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TCGST	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TCPC	2	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	100	0	0	17	
V	1	0	0	0	500	200	0	0	0	0	0	0	0	0	0	10	
SCREENING	1	2	2	2	100	100	0	0	0	0	0	0	0	0	0	0	
VI	1	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	0	0	0	12	
VII	1	9	6	6	400	100	0	0	0	0	0	0	0	0	0	32	
VIII	1	18	6	6	350	100	0	0	0	0	0	0	0	0	0	34	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BN/SQ FTX	0	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	0	0	0	0	
CO/TRP FTX	0	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	0	0	0	0	
PLT FTX	1	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	400	0	100	0	18	
BN/SQ FCX	0	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	0	0	0	0	
CO/TRP FCX	0	TWGSS	TWGSS	TWGSS	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TANK</b>	<b>1276</b>	<b>616</b>	<b>616</b>	<b>59400</b>	<b>22000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>23200</b>	<b>3600</b>	<b>6016</b>					
<b>DIV CAV</b>	<b>783</b>	<b>378</b>	<b>378</b>	<b>36450</b>	<b>13500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15000</b>	<b>2400</b>	<b>3726</b>					
<b>ARM CAV</b>	<b>1189</b>	<b>574</b>	<b>574</b>	<b>55350</b>	<b>20500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22600</b>	<b>3600</b>	<b>5650</b>					

**YAH  
YAH  
YAH**

**YAH  
YAH  
YAH**

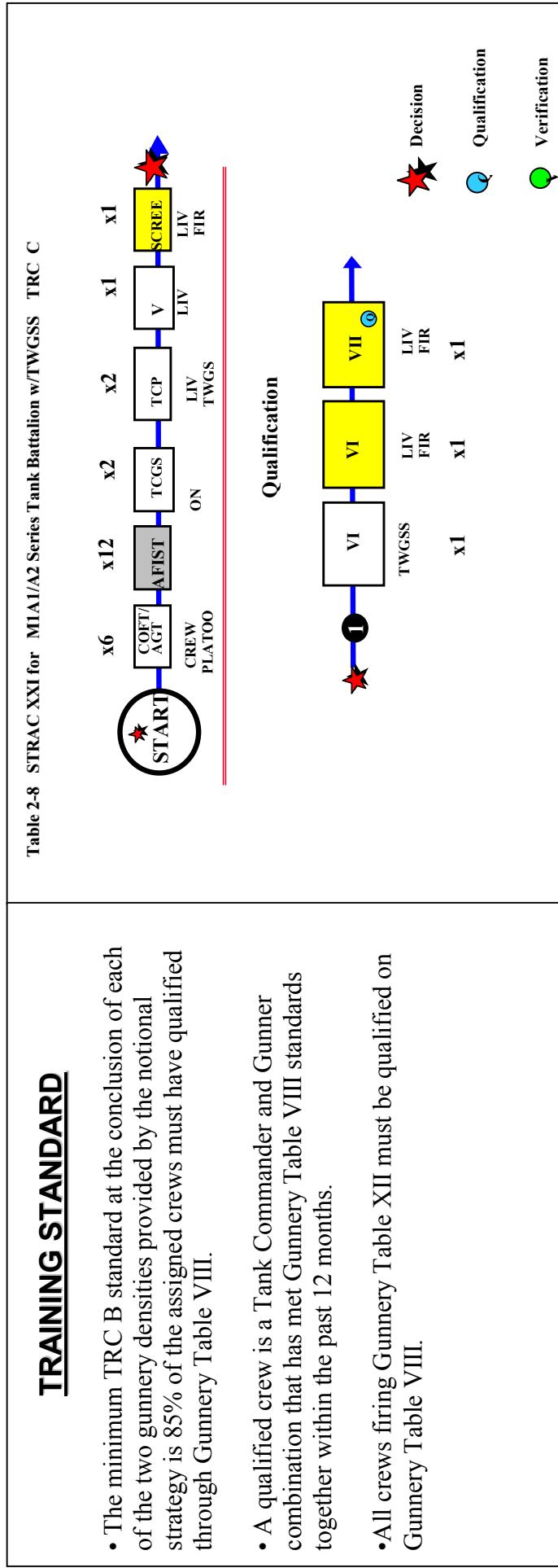
## Crew Level Annual Training Strategy (TWGSS)

Table	Freq	TPDS-T	TP-T	SLAP_T	7.62	CAL .50	7.62 BLK	H OFF-MAN
COFT	6	0	0	0	0	0	0	0
AFIST	12	0	0	0	0	0	0	0
TCGST	2	0	0	0	0	0	0	0
TCPC	2	TWGSS	TWGSS	0	0	0	100	17
V	1	0	0	0	500	200	0	10
SCREEN	1	2	2	0	100	100	0	0
VI	1	TWGSS	TWGSS	20	0	0	0	12
VII	1	9	6	0	400	100	0	32
VIII	1	18	6	0	350	100	0	34
Tank Bn		1276	616	880	59400	22000	8800	5368
Div Cav		783	378	540	36450	13500	5400	3294
Arm Cav		1189	574	820	55350	20500	8200	5002
DODIC		C785	C784	AA38	A131	A557	A111	L602

## TRAINING STANDARD

- The minimum TRC B standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crews must have qualified through Gunnery Table VIII.

Table 2-8 STRAC XXI for M1A1/A2 Series Tank Battalion w/TWGSS TRC C



Tank Company

# Company Level Annual Training Strategy (TWGSS)

Table	Freq	TPDS-T	7.62 M	CAL .50	7.62 BLK	CAL .50 BLK	HOFF-MAN
BN SQ FT	0	0	0	0	0	0	0
CO TRP F	0	0	0	0	0	0	0
PLT FTX	1	0	0	0	400	100	18
BN SQ FC	0	0	0	0	0	0	0
CO TRP F	0	0	0	0	0	0	0
Tank Bn	0	0	0	0	14400	3600	648
Div Cav	0	0	0	0	9600	2400	432
Arm Cav	0	0	0	0	14400	3600	648
DODIC	C785	A131	A557	A111	A598	L602	

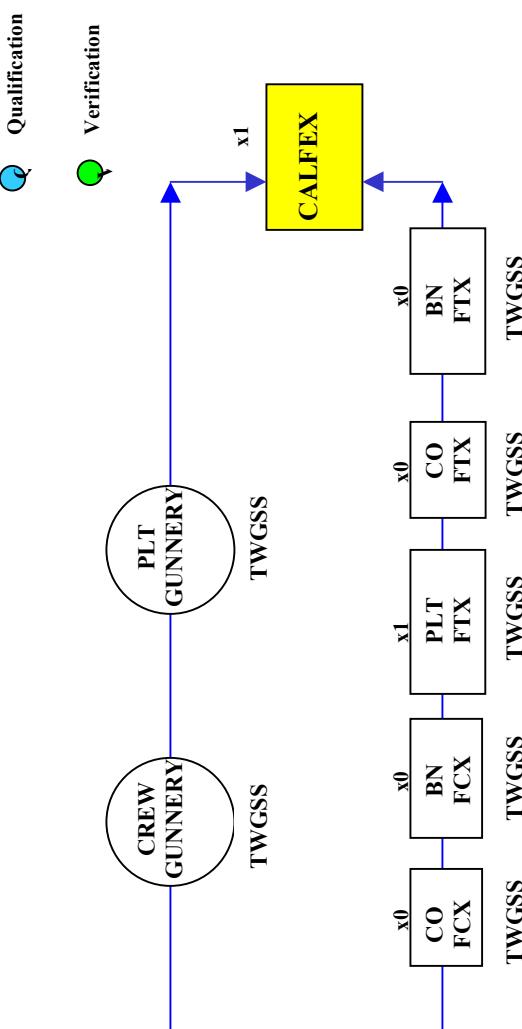
## TRAINING STANDARD

- Crews will conduct Gunnery Table IV/TCP/C semi-annually using TWGSS. The goal is for 100% of crews to qualify on Gunnery Table VIII and Gunnery Table XII.

• The minimum standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crews must have qualified through Gunnery Table VIII. A qualified crew is a Tank Commander and Gunner combination that has met Gunnery Table VIII standards together within the past 12 months.

- All crews firing Gunnery Table XII must be qualified on Gunnery Table VIII. Platoons will conduct Gunnery Table XII at least once a year. The qualification levels are:
  - (a) 7 of 9 platoons in a tank battalion
  - (b) 7 of 9 tank platoons in an ACR
  - (c) 3 of 4 tank platoons in a divisional

Table 2-9 STRAC XXI for M1A1/A2 Series Tank Battalion w/TWGSS TRCA



## Table 2-9 M1A1/M1A2 SERIES (TRC C) - TK BN

### Company Level Annual Training Strategy (TWGSS)

Table	Freq	TPDS-T	7.62 M	CAL .50	7.62 BLK	CAL .50	HOFF-MAN
BNSQFTY	0	0	0	0	0	0	0
COTRPF	0	0	0	0	0	0	0
PLT FTX	1	0	0	0	400	100	18
BNSQFC	0	0	0	0	0	0	0
COTRPF	0	0	0	0	0	0	0
Tank Bn	0	0	0	0	14400	3600	648
Div Cav	0	0	0	0	9600	2400	432
Arm Cav	0	0	0	0	14400	3600	648
DODC	<b>C785</b>	<b>A131</b>	<b>A557</b>	<b>A111</b>	<b>A598</b>	<b>L602</b>	

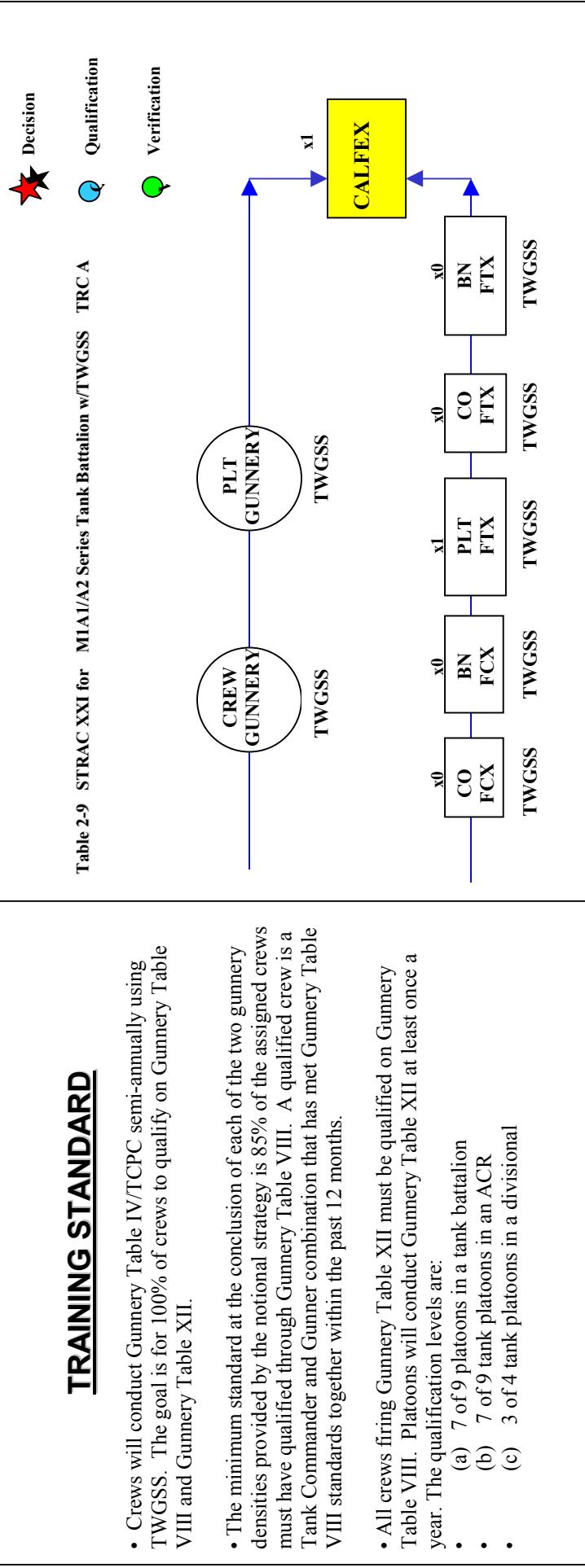
### TRAINING STANDARD

- Crews will conduct Gunnery Table IV/TCPC semi-annually using TWGSS. The goal is for 100% of crews to qualify on Gunnery Table VIII and Gunnery Table XII.

- The minimum standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crews must have qualified through Gunnery Table VIII. A qualified crew is a Tank Commander and Gunner combination that has met Gunnery Table VIII standards together within the past 12 months.

- All crews firing Gunnery Table XII must be qualified on Gunnery Table VIII. Platoons will conduct Gunnery Table XII at least once a year. The qualification levels are:
  - (a) 7 of 9 platoons in a tank battalion
  - (b) 7 of 9 tank platoons in an ACR
  - (c) 3 of 4 tank platoons in a divisional

Table 2-9 STRAC XXI for M1A1/A2 Series Tank Battalion w/TWGSS TRC A



YANKEE  
TIPS

Chew  
Talk

Chew  
Talk

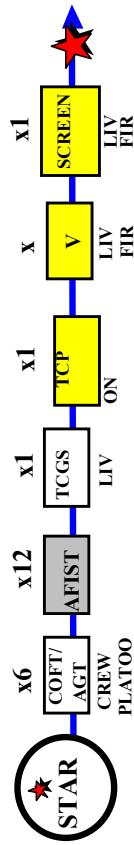
# Crew Level Maneuver Year Training Strategy (TWGSS)

Table	Freq	TPDS-T	TP-T	SLAP_T	7.62	CAL .50	7.62 BLK	HOFF-MAN
<b>COFT</b>	6	0	0	0	0	0	0	0
<b>AFIST</b>	12	0	0	0	0	0	0	0
<b>TCGST</b>	1	0	0	0	0	0	0	0
<b>TCPC</b>	1	<b>TWGSS</b>	<b>TWGSS</b>	0	0	100	17	
<b>V</b>	1	0	0	0	500	200	0	10
<b>SCREEN</b>	1	2	2	0	100	100	0	0
<b>VI</b>	1	<b>TWGSS</b>	<b>TWGSS</b>	20	0	0	0	12
<b>VII</b>	1	12	6	0	400	100	0	32
<b>VIII</b>	0	0	0	0	0	0	0	0
<b>Tank Bn</b>	616	352	880	44000	17600	4400	3124	
<b>Div Cav</b>	378	216	540	27000	10800	2700	1917	
<b>Arm Cav</b>	574	328	820	41000	16400	4100	2911	
<b>DODIC</b>	C520	C511	Aa38	A131	A557	A111	L602	

## TRAINING STANDARD

- Crews in TRC C (TC/Gunner combinations) will conduct M-COFT training every other month (Bn average four hours per crew every other month). Crews will conduct TCPC at least twice per gunnery year and once per maneuver year. Crews will conduct Gunnery Table VIII once every 2 years. The goal is for 100% of crews to qualify on Gunnery Table VIII. The minimum standard is 75 % of the assigned crews will qualify on this table.

Table 2-11 STRAC XXI for  
M1A1/A2 Series Tank Battalion w/TWGSS TRC C



## Qualification

- Suggest use of Interlocking Training Strategy that consists of Garrison Training Area, LTA and MTA events. Basic skills are taught at the garrison level through the use of the Abrams FIST I, M-COFT and TWGSS. The M1A1 M-COFT utilization strategy is provided in ST 17-12-7-1. Intermediate skills are taught in the LTA to include execution of TCPC using TWGSS or limited subcaliber training (if the LTA facility will support subcaliber firing). Qualification is conducted at the MTA.
- 1. **STAR** (COFT/AGT CREW PLATOON)
- 2. **VII** (LIVE FIRE)
- 3. **VIII** (LIVE FIRE)
- 4. **V** (LIVE FIRE)
- 5. **SCREEN** (LIV FIR)
- 6. **x6** (COFT/AGT CREW PLATOON)
- 7. **x12** (TCGS)
- 8. **x1** (TCP)
- 9. **x1** (V)
- 10. **x1** (LIV FIR)
- 11. **x0** (LIV FIR)



Tank Company

TRA

**Table 2-12 M1A1/M1A2 SERIES (TRC C) - TK BN**

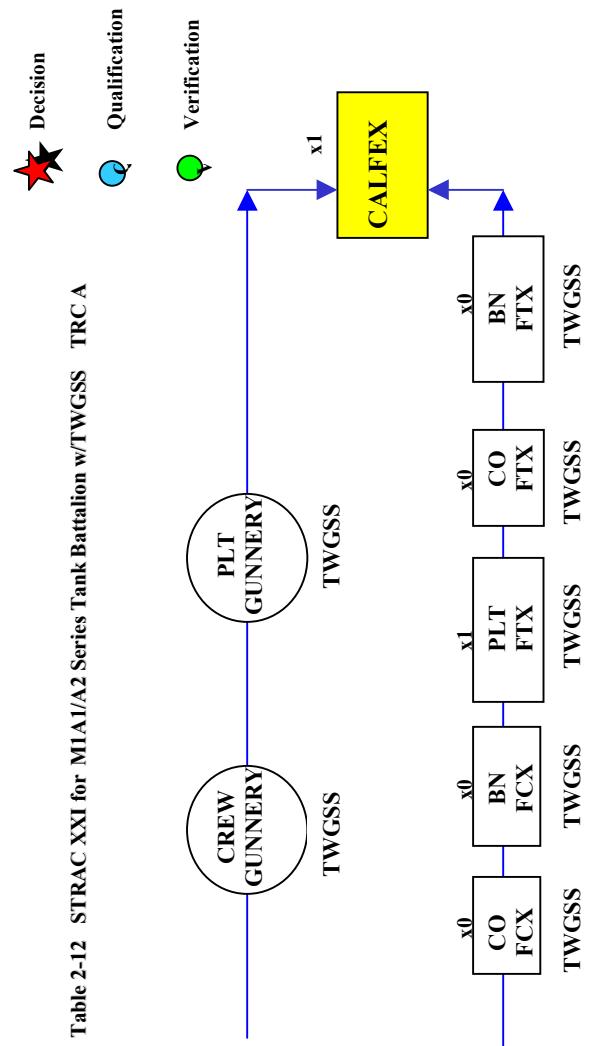
## Company Level Maneuver Year Training Strategy (TWGSS)

Table	Freq	TPDS-T	7.62 M	CAL .50	7.62 BLK	BLK	CAL .50	H OFF-MAN
<b>BN/SQ FT</b>	0	0	0	0	0	0	0	0
<b>CO/TRP F</b>	1	0	0	0	200	100	100	18
<b>PLT FTX</b>	1	0	0	0	400	400	400	36
<b>BN/SQ FC</b>	1	0	0	0	400	100	100	18
<b>CO/TRP F</b>	1	0	0	0	0	0	0	8
<b>Tank Bn</b>	0	0	0	0	23200	8000	8000	1696
<b>Div Cav</b>	0	0	0	0	15000	5100	5100	1038
<b>Arm Cav</b>	0	0	0	0	22600	7700	7700	1562
<b>DODIC</b>	<b>C785</b>	<b>A131</b>	<b>A557</b>	<b>A111</b>	<b>A598</b>	<b>L602</b>		

## TRAINING STANDARD

- Crews will conduct Gunnery Table IV/TCPC semi-annually using TWGSS. The goal is for 100% of crews to qualify on Gunnery Table VIII and Gunnery Table XII.
- The minimum standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crews must have qualified through Gunnery Table VIII. A qualified crew is a Tank Commander and Gunner combination that has met Gunnery Table VIII standards together within the past 12 months.
- All crews firing Gunnery Table XII must be qualified on Gunnery Table VIII. Platoons will conduct Gunnery Table XII at least once a year. The qualification levels are:
  - (a) 7 of 9 platoons in a tank battalion
  - (b) 7 of 9 tank platoons in an ACR
  - (c) 3 of 4 tank platoons in a divisional

Table 2-12 STRAC XXI for M1A1/A2 Series Tank Battalion w/TWGSS TRC A



**Table 2-13 M1A1/M1A2 SERIES (TRC C) - TK BN**



DODIC	C785	C784	NA	A131	A557	AA38	G978	A111	A598	L602
COFT	6	0	0	0	0	0	0	0	0	0
ABRAMS FISTI	12	0	0	0	0	0	0	0	0	0
TCGST	1	0	0	0	0	0	0	0	0	0
TCPC	1	TWGSS	TWGSS	0	0	0	0	100	0	17
V	1	0	0	500	200	0	0	0	0	10
SCREENING	1	2	2	100	100	0	0	0	0	0
VI	1	TWGSS	TWGSS	0	0	0	0	0	0	12
VII	1	12	6	400	100	0	0	0	0	32
VIII	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
BNSQ FTX	1	TWGSS	TWGSS	0	0	0	0	200	100	18
CO/TRP FTX	1	TWGSS	TWGSS	0	0	0	0	400	100	36
PLT FTX	1	TWGSS	TWGSS	0	0	0	0	400	100	18
BNSQ FCX	1	TWGSS	TWGSS	0	0	0	0	0	0	8
CO/TRP FCX	1	TWGSS	TWGSS	0	0	0	0	0	0	8
<b>TANK</b>	<b>616</b>	<b>352</b>	<b>352</b>	<b>44000</b>	<b>17600</b>	<b>0</b>	<b>0</b>	<b>44400</b>	<b>12200</b>	<b>6332</b>
DIV CAV	378	216	216	27000	10800	0	0	28500	7800	3927
ARM CAV	574	328	328	41000	16400	0	0	42300	11600	5877

Guiney Year  
Guiney Year

W  
C  
H  
A  
N  
G  
T  
A  
N  
K  
R

**Table 2-14 M1/M1A1 SERIES (TRCC C) - TK BN**

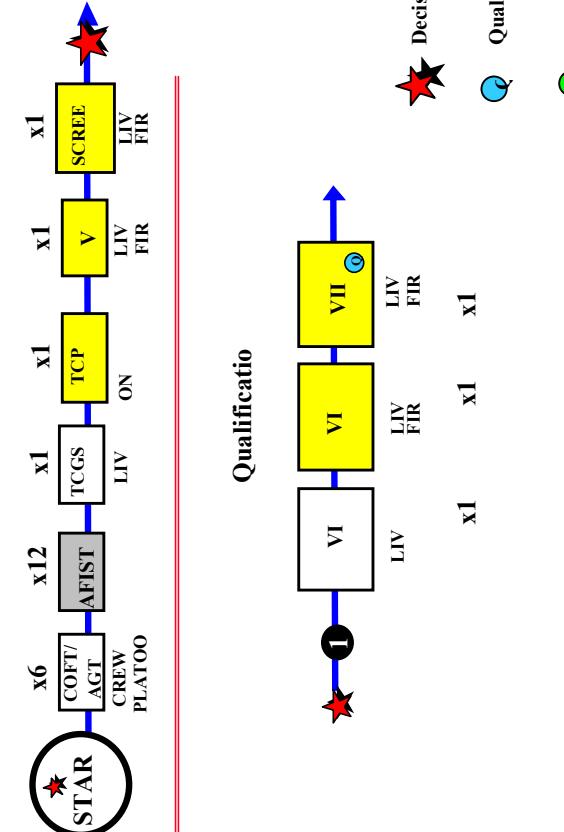
## Crew Level Gunnery Year Training Strategy (TWGSS)

Table	Freq	TPDS-T	TP-T	SLAP_T	7.62	CAL .50	7.62 BLK	H OFF- MAN
COFT	6	0	0	0	0	0	0	0
AFIST	12	0	0	0	0	0	0	0
TCGST	1	0	0	0	0	0	0	0
TCPC	1	TWGSS	TWGSS	0	0	100	17	
V	1	0	0	0	500	200	0	10
SCREEN	1	2	2	0	100	100	0	0
VI	1	TWGSS	TWGSS	20	0	0	0	12
VII	1	9	6	0	400	100	0	32
VIII	1	18	6	0	350	100	0	34
Tank Bn	1276	616	880	59400	22000	4400	4620	
Div Cav	783	378	540	36450	13500	2700	2835	
Arm Cav	1189	574	820	55350	20500	4100	4305	
DODIC	C520	C511	AA38	A131	A557	A111	L602	

## TRAINING STANDARD

- Crews in TRC C (TC/Gunner combinations) will conduct M-COFT training every other month (Bn average four hours per crew every other month). Crews will conduct TCPC at least twice per gunnery year and once per maneuver year. Crews will conduct Gunnery Table VIII once every 2 years. The goal is for 100% of crews to qualify on Gunnery Table VIII. The minimum standard is 75 % of the assigned crews will qualify on this table.

Table 2-14 STRAC XXI for  
M1A1/A2 Series Tank Battalion w/TWGSS TRC C



## Qualification

- Suggest use of Interlocking Training Strategy that consists of Garrison Training Area, LTA and MTA events. Basic skills are taught at the garrison level through the use of the Abrams FIST I, M-COFT and TWGSS. The M1 A1 M-COFT utilization strategy is provided in ST 17-12-7-1. Intermediate skills are taught in the LTA to include execution of TCPC using TWGSS or limited subcaliber training (if the LTA facility will support subcaliber firing). Qualification is conducted at the MTA.



Verification



Qualification



Decision



**Table 2-15 M1A1/M1A2 SERIES (TRCC) - TK BN**

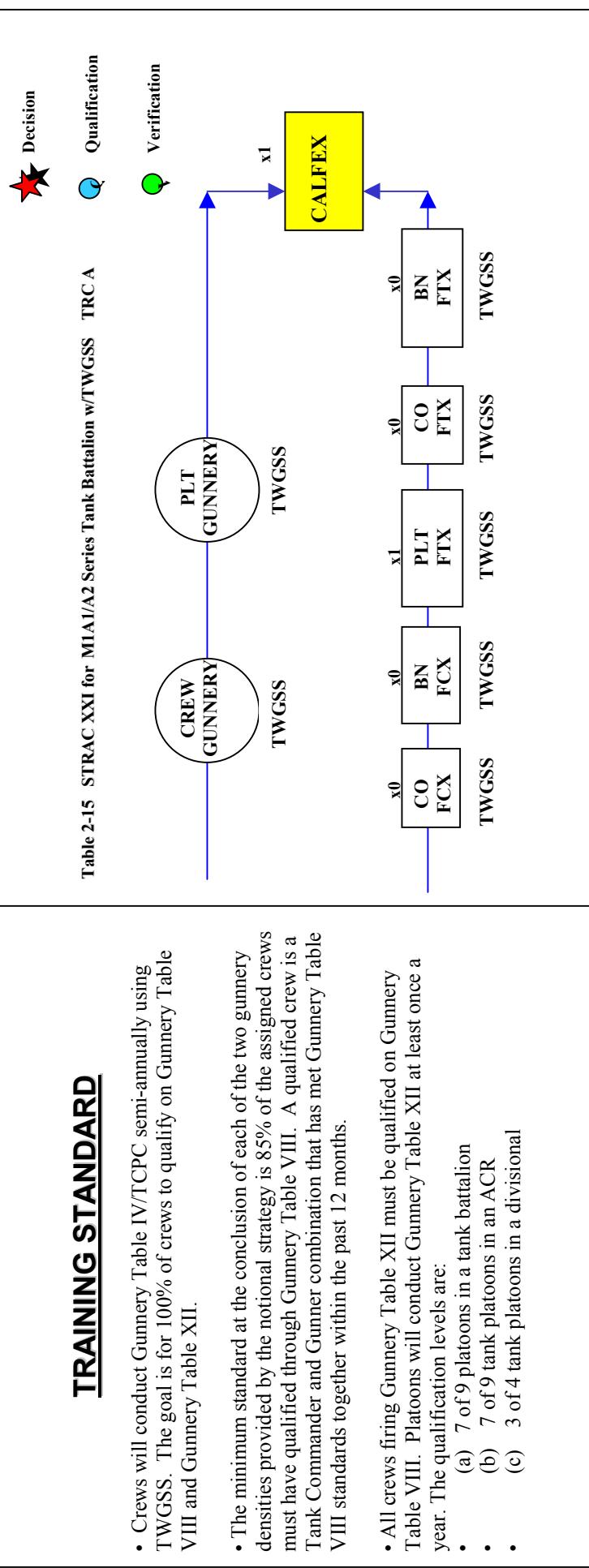
Company Level Gunnery Year Training Strategy (TMGSS)

Table	Freq	TPDS-T	7.62 M	CAL .50	7.62 BLK	CAL .50	BLK	HOFF-MAN
BN(SQ FT)	0	0	0	0	0	0	0	0
CO/TRP F	0	0	0	0	0	0	0	0
PLT FTX	1	0	0	0	400	100	18	
BN(SQ FC)	0	0	0	0	0	0	0	0
CO/TRP F	0	0	0	0	0	0	0	0
Tank Bn	0	0	0	0	14400	3600	648	
Div Cav	0	0	0	0	9600	2400	432	
Arm Cav	0	0	0	0	14400	3600	648	
DODIC	C785	A131	A557	A111	A598	L602		

## **TRAINING STANDARD**

- Crews will conduct Gunnery Table IV/TCPC semi-annually using TWGSS. The goal is for 100% of crews to qualify on Gunnery Table VIII and Gunnery Table XII.
  - The minimum standard at the conclusion of each of the two gunnery densities provided by the notional strategy is 85% of the assigned crew must have qualified through Gunnery Table VIII. A qualified crew is Tank Commander and Gunner combination that has met Gunnery Table VIII standards together within the past 12 months.
  - All crews firing Gunnery Table XII must be qualified on Gunnery Table VIII. Platoons will conduct Gunnery Table XII at least once a year. The qualification levels are:
    - (a) 7 of 9 platoons in a tank battalion
    - (b) 7 of 9 tank platoons in an ACR
    - (c) 3 of 4 tank platoons in a divisional

**Table 2-15 STRAC XXI for M1A1/A2 Series Tank Battalion w/TWGSS TRCA**



**Roll-up**

**Table 2-16 M1A1/M1A2 SERIES (TRC C) - TK BN**

Event/Table		HOFFMAN		L602	
Frequency	DDODIC	C785	C784	A598	A599
HEAT-TP-T	COFT	6	0	0	0
TPCSDS-T	ABRAMS FIST I	12	0	0	0
	TCGST	2	0	0	0
	TCPC	2	TWGSS	TWGSS	0
	V	1	0	0	500
	SCREENING	1	2	2	200
	VI	1	TWGSS	TWGSS	100
	VII	1	9	6	400
	VIII	1	18	6	350
		0	0	0	100
BN/SQ FTX	CC/TRP FTX	0	TWGSS	TWGSS	0
PLT FTX	BN/SQ FCX	0	TWGSS	TWGSS	0
CC/TRP FCX		0	TWGSS	TWGSS	0
TANK	1276	616	616	59400	22000
DIV CAV	783	378	378	36450	13500
ARM CAV	1189	574	574	55350	20500

**CIPOLLINA**

**Cavallino**

Brailey Chow  
Brailey Chow

TRADE

# Crew Level Annual Training Strategy

## BRADLEY (M3) STRAC TABLE with PGS

		Annual Training Strategy for Bradley Fighting Vehicle (M3) (TRC A)																					
Event/Table		Frequency		TPCSDS-T		TPT		SUB CAL 7.62T		TOW M80		M80	PB96	L592	A077	A131	G815	A111	L602				
DODIC	CAV SQDN	A940	A976	A146	PB96	L592	A077	A131	G815	A111	L602												
PGT	12	0	0	0	0	0	0	0	0	0	0												
BGST	2	0	0	0	0	0	0	0	0	0	0												
BATS	12	0	0	0	0	0	0	0	0	0	0												
V	2	1	0	0	0	160	0	0	0	0	0												
Zero	4	1	3	2	0	0	0	0	0	0	0												
VI	2	1	32	24	0	0	0	0	0	0	0												
VII	2	1	56	24	0	0	0	0	0	0	0												
VIII	2	1	48	48	0	0	0	0	0	0	0												
<b>TOTALS PER M3:</b>		<b>452</b>	<b>212</b>	<b>320</b>	<b>1</b>	<b>77</b>	<b>0</b>	<b>77</b>	<b>0</b>	<b>320</b>	<b>16</b>	<b>3000</b>	<b>16</b>										

Note: Crew totals include allocations for all events on roll-up table. Those events may not be shown on this table.

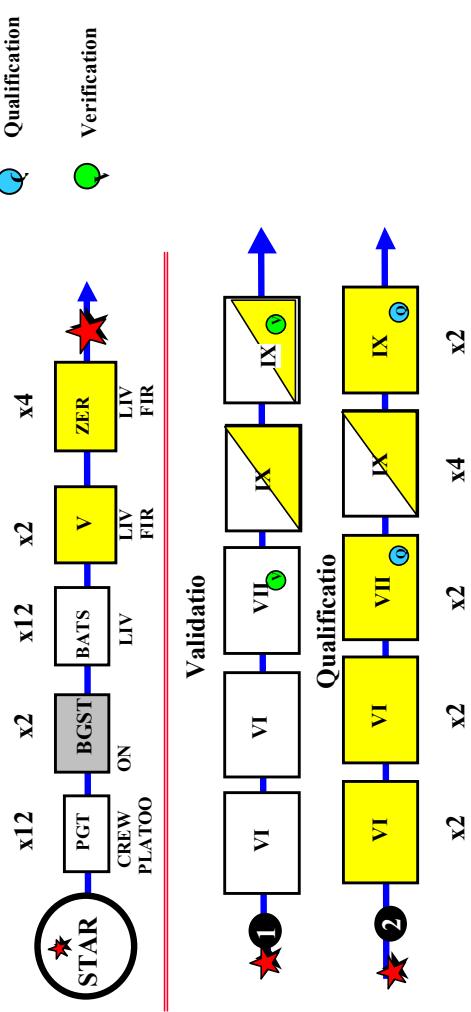
## TRAINING STANDARD

Bradley Cavalry Fighting Vehicle (M3). The standards are given below for each TRC. Recommended training strategies and ammunition resources are given in tables (PGS) for TRC A, TRC B, TRC C and TRC D USAR Training Battalion.

TRC A Standard: Eighty-five percent of the assigned crews will qualify on Bradley Table VIII A/B two times per year. Sixty-six percent of scout platoon sections and 85 percent of sections within ACR and divisional cavalry squadrons will qualify on Bradley Table X A/B two times per year. All tables will be executed IAW FM 23-1.

NOTE: Cavalry/Scouts units equipped with PGS will be decremented one iteration of BT IX and BT X. Decrement equals 192 rounds of 25mm per vehicle.

Table 2-17 STRAC XXI for M3 Series w/PGS TRCA



**Bradley Platoon**

**43rd PIA**

# Platoon Level Training Strategy

## **BRADLEY (M3) STRAC TABLE with PGS**

Annual Training Strategy for Bradley Fighting Vehicle (M3) (TRC A)								
Event/Table	DodIC	TPCSDS-T	TPT	A940	A976	A146	M80	L592
TOW Qual	2	1	0	0	0	0	0	0
IX	1	1	72	24	0	0	0	0
X	1	1	72	24	0	0	0	0
CALFEX	1	1	24	24	0	1	2	0
UNIT TRAINING								
<b>TOTALS PER PLT:</b>		<b>2712</b>	<b>1632</b>	<b>1920</b>	<b>6</b>	<b>462</b>	<b>0</b>	<b>19200</b>
								<b>96</b>
								<b>18000</b>
								<b>870</b>

Note: Platoon totals include allocations for all events on roll-up table. Those events may not be shown on this table.

## **TRAINING STANDARD**

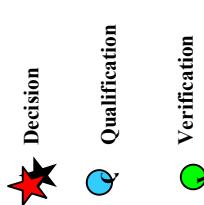
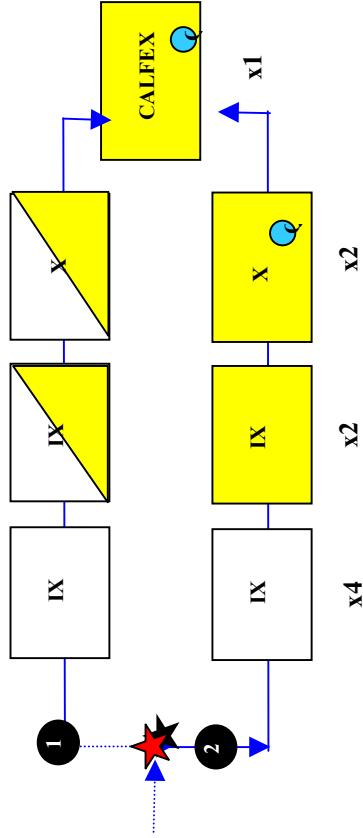
Bradley Cavalry Fighting Vehicle (M3). The standards are given below for each TRC. Recommended training strategies and ammunition resources are given in tables (PGS) for TRC A, TRC B, TRC C and TRCD USAR Training Battalion.

TRC A Standard: Eighty-five percent of the assigned crews will qualify on Bradley Table VII A/B two times per year. Sixty-six percent of scout platoon sections and 85 percent of sections within ACR and divisional cavalry squadrons will qualify on Bradley Table X A/B two times per year. All tables will be executed IAW FM 23-1.

NOTE: Cavalry/Scouts units equipped with PGS will be decremented one iteration of BT IX and BT X. Decrement equals 192 rounds of 25mm per vehicle.

Table 2-18 STRAC XXI for M1A1/A2 Series Tank Battalion w/PGS TRC A

Platoon Level Path Qualification Training

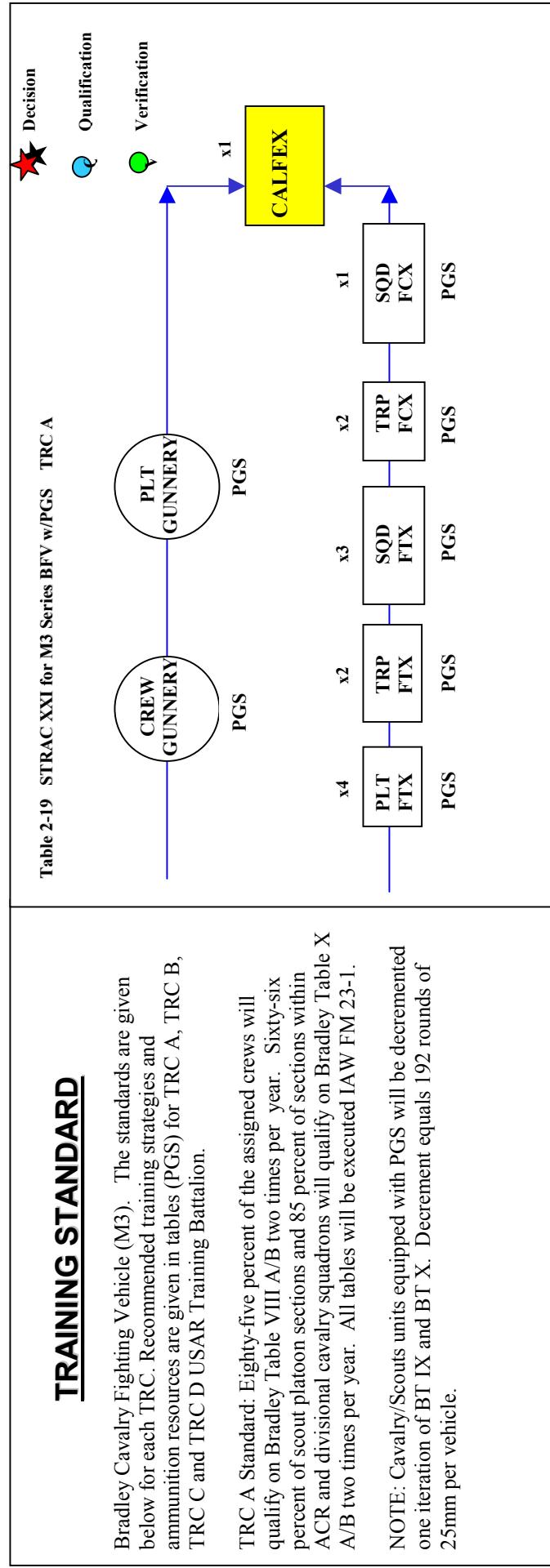


**Bradley Troop**  
**Scouts**

# Troop Level Annual Training Strategy (PGS)

		Annual Training Strategy for Bradley Fighting Vehicle (M3) (TRC A)											
Event/Table	DODIC	TPCSDS-T	A940	A976	A146	M80	PB96	L592	A077	A131	G815	A111	L602
UNIT TRAINING		SUB CAL 7.62T				5-56 TRACER			7.62 COAX				
PLT FTX	4	1	0	0	0	0	0	0	0	0	0	0	0
TRP FTX	2	1	0	0	0	0	0	0	0	0	0	0	0
BN FTX (EXEV)	3	1	0	0	0	0	0	0	4	0	0	0	0
TRP FCX	2	1	0	0	0	0	0	0	1	0	0	0	0
SQDN FCX	1	1	0	0	0	0	0	0	1	0	0	0	0
<b>TOTALS PER TROOP:</b>		<b>8583</b>	<b>5168</b>	<b>6080</b>	<b>19</b>	<b>1463</b>	<b>0</b>	<b>60800</b>	<b>304</b>	<b>60800</b>	<b>304</b>	<b>57000</b>	<b>2755</b>

Note: Troop totals include allocations for all events on roll-up table. Those events may not be shown on this table.





**Table 2-20 M3 SERIES (TRCA) – CAV SQDN**

**Bradley** **Crown**  
Steel

**B**  
**C**  
**R**  
**A**

**Table 2-21 M3 SERIES (TRC B) – CAV SQDN**

### Crew Level Annual Training Strategy

		BRADLEY (M3) STRAC TABLE																	
		Annual Training Strategy for Bradley Units (M3) (TRC B)																	
Event/Table	Frequency	CAV SQDN		TPCSDS-T		TPT		SUB CAL 7.62T		TOW		M80		7.62 COAX		HOFFMAN		7.62 BLANK	
		DODIC	A940	A976	A146	PB96	L592	A131	A111	L602									
PGT	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BGSST	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
COFT	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
V	1	1	0	0	0	0	160	0	0	0	0	0	0	0	0	0	0	0	
Zero	2	1	3	2	0	0	0	0	0	0	0	50	0	0	0	0	0	0	
VI	1	1	32	24	0	0	0	0	2	200	0	200	0	14	0	0	0	0	
VII	1	1	56	24	0	0	0	0	2	200	0	200	0	18	0	0	0	0	
VIII	1	1	48	48	0	0	0	0	2	200	0	200	0	21	0	0	0	0	
<b>TOTALS PER M3:</b>		<b>142</b>	<b>100</b>	<b>160</b>	<b>0</b>	<b>23</b>	<b>700</b>	<b>800</b>	<b>53</b>										

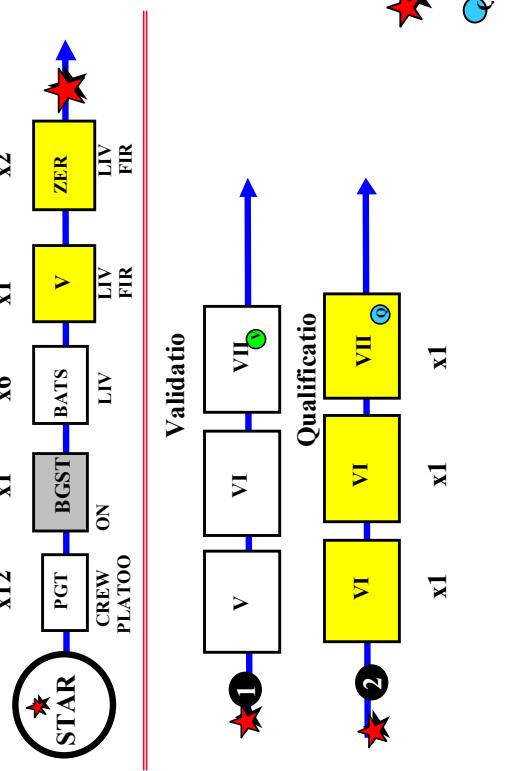
Note: Crew totals include allocations for all events on roll-up table. Those events may not be shown on this table.

### TRAINING STANDARD

Bradley Fighting Vehicle (M3). The standards are given below for each TRC. Recommended training strategies and ammunition resources are given in tables (PGS) for TRC A, TRC B, TRC C and TRC D USAR Training Battalion.

TRC B Standard. Sixty-six percent of the assigned scout platoon crews will qualify on Bradley Table VIII A/B once during each training year. Units with MCFOFT will conduct MCFOFT training (troops average four hours per crew every other month).

Table 2-21 STRAC XXI for M3 Series w/PGS TRC B



**Bradley Troon  
TENNIS**

Troop Level Annual Training Strategy

# **BRADLEY (M3) STRAC TABLE with PGS**

Annual Training Strategy for Bradley Fighting Vehicle (M3) (TRC B)

Event/Table	DODIC	UNIT TRAINING	PLT FTX	TRP FTX	TRP FCX	TOTALS PER TROOP:
Frequency						
CAV SQDN	A940	A976	1	1	1	2698
TPCSDS-T			0	0	0	1900
SUB CAL 7.62T		A146	0	0	0	3040
TOW M80		TOW	0	0	0	3
M80		PB96	0	0	0	0
7.62 COAX		L592	8	8	8	437
7.62 BLANK		A131	0	0	0	0
HOFFMAN		A111	0	0	0	0
		L602	400	400	400	15200
			0	0	0	1007

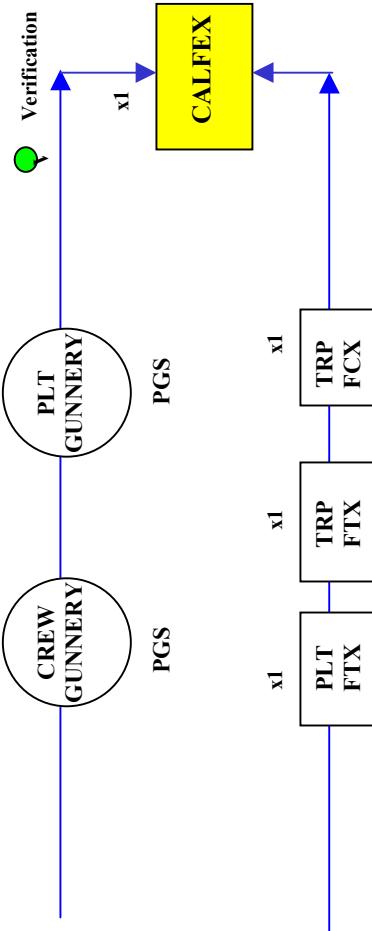
**Note:** Troop totals include allocations for all events on roll-up table. Those events may not be shown on this table.

## TRAINING STANDARD

Bradley Cavalry Fighting Vehicle (M3). The standards are given below for each TRC. Recommended training strategies and ammunition resources are given in tables (PGS) for TRC A, TRC B, TRC C and TRC D. USAR Training Battalion

TRCB Standard. Sixty-six percent of the assigned scout platoon crews will qualify on Bradley Table VIII A/B once during each training year. Units with MCFOFT will conduct MCFOFT training (troups average four hours per crew every other month).

Table 2-22 STRAC XXI for M<sup>3</sup> Series BFV w/PGS TRC B



**Table 2-23 M3 SERIES (TRC B) – CAV SQDN**



<b>BRADLEY (M3) STRAC TABLE with PGS</b>							
Annual Training Strategy for Bradley Fighting Vehicle (M3) (TRC B)							
Event/Table	DODIC	TPCSDS-T	TPT	A940	A976	M80	HOFFMAN
CAV SQDN						7.62 COAX	7.62 BLANK
Frequency						L592	A131 A111 L602
SUB CAL 7.62T					A146		
TOW M80				PB96		0 0 0 0	0 0 0 0
Zero	2	1	3	2	0	0 0 0 0	0 0 0 0
VI	1	1	32	24	0	0 2 2 0	0 0 0 0
VII	1	1	56	24	0	0 2 2 0	0 0 0 0
VIII	1	1	48	48	0	0 2 2 0	0 0 0 0
UNIT TRAINING							
PLT FTX	1	1	0	0	0	8 0 0 0	400 0 0 0
TRP FTX	1	1	0	0	0	8 0 0 0	400 0 0 0
TRP FCX	1	1	0	0	0	1 0 0 0	0 0 0 0
<b>TOTALS PER M3:</b>	<b>142</b>	<b>100</b>	<b>160</b>	<b>0</b>	<b>23</b>	<b>700</b>	<b>800</b> <b>53</b>
<b>TOTALS PER PLT:</b>	<b>852</b>	<b>600</b>	<b>960</b>	<b>1</b>	<b>138</b>	<b>4200</b>	<b>4800</b> <b>318</b>
<b>TOTALS TROOP:</b>	<b>2698</b>	<b>1900</b>	<b>3040</b>	<b>3</b>	<b>437</b>	<b>13300</b>	<b>15200</b> <b>1007</b>

**Bradley Crew**

**BRADLEY**

**Table 2-24 M3 SERIES (TRCC) – CAV SQDN**

Crew Level Annual Training Strategy

# **BRADLEY (M3) STRAC TABLE**

Annual Training Strategy for Bradley Units (M3) (TRCC C)

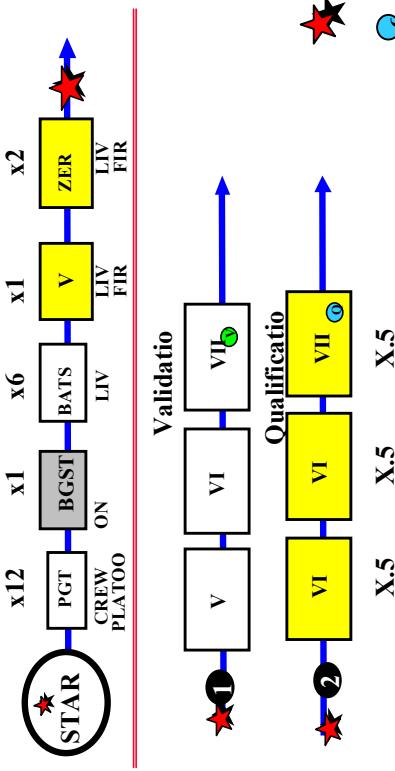
Note: Crew totals include allocations for all events on roll-up table. Those events may not be shown on this table.

## **TRAINING STANDARD**

- Bradley Cavalry Fighting Vehicle (M3). The standards are given below for each TRC. Recommended training strategies and ammunition resources are given in tables (PGS) for TRC A, TRC B, TRC C and TRC D USAR Training Battalion

- TRC C Standard. Fifty percent of assigned crews will qualify on Table VIIA/B every other training year. All sections will participate in an EXEVIAL every other training year.

Table 2-24 STRAC XXI for M3 Series w/PGS TRCC



The logo for Bragg's All Natural Foods. It features the word "Bragg's" in a large, stylized, yellow-to-brown gradient font. The letters are slightly slanted and have a three-dimensional effect. A thick, dark brown rectangular bar is positioned behind the first two letters, "Br". To the right of the main text, there is a vertical stack of five smaller, overlapping bars in the same yellow-to-brown gradient.

## Troop Level Annual Training Strategy

# **BRADLEY (M3) STRAC TABLE 5-12 with PGS**

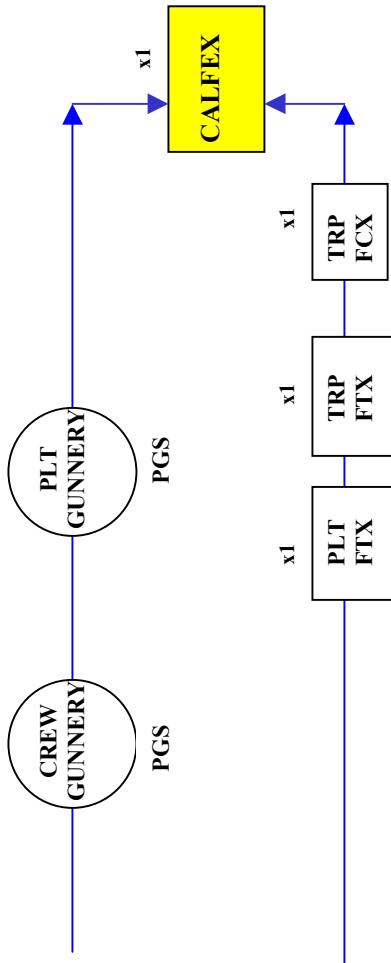
Annual Training Strategy for Bradley Fighting Vehicle (M3) (TRC C)

**Note:** Troop totals include allocations for all events on roll-up table. Those events may not be shown on this table.

TRAINING STANDARD

- Bradley Cavalry Fighting Vehicle (M3). The standards are given below for each TRC. Recommended training strategies and ammunition resources are given in tables (PGS) for TRC A, TRC B, TRC C and TRCD USAR Training Battalion.
  - TRC C Standard. Fifty percent of assigned crews will qualify on Table VIIA/B every other training year. All sections will participate in an EXEVAL every other training year.

**Table 2-25 STRAC XXI for M3 Series BFV w/PGS TRC C**



**Table 2-26 M3 SERIES (TRCC) – CAV SQDN**



# **BRADLEY (M3) STRAC TABLE with PGS**

Annual Training Strategy for Bradley Fighting Vehicle (M3) (TRCC)

Event/Table		HOFFMAN						L602	
DODIC		7.62 BLANK			7.62 COAX			A111	A131
PGT		TOW M80			M80			L592	PB96
TPCSDS-T		SUB CAL 7.62T			A940			A146	A976
CAV SQDN		TPT			A940			A940	A976
Frequency		A940			A940			0	0
PGT	12	0	0	0	0	0	0	0	0
BGST	1	0	0	0	0	0	0	0	0
BATS	6	0	0	0	0	0	0	0	0
V	1	1	0	0	160	0	0	0	0
Zero	2	1	3	2	0	0	0	50	0
VI	1	1	32	24	0	0	0	2	200
VII	1	1	56	24	0	0	0	2	200
VIII	1	1	48	48	0	0	0	2	200
TOW Qual	0	1	0	0	0	0	0	0	0
UNIT TRAINING									
PLT FIX	1	1	0	0	0	0	0	8	0
TRP FIX	1	1	0	0	0	0	0	8	0
TRP FCX	1	1	0	0	0	0	0	1	0
<b>TOTALS PER M3:</b>		142	100	160	0	0	23	700	800
<b>TOTALS PER PLT:</b>		852	600	960	0	0	138	4200	4800
<b>TOTALS TROOP:</b>		2698	1900	3040	0	0	437	13300	15200

**STRATEGIC**

**Brigade**

**Reconnaissance**

**Rec' Troop**

HWW CREW

TROCKA  
CRA

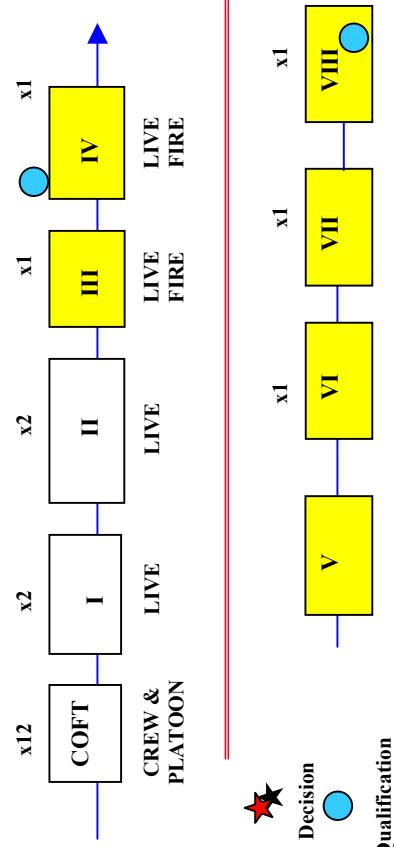
## Crew Level Annual Training Strategy

Table	Freq	40MM (D)	40MM MIX	CAL .50 BALL	CAL.50 MIX	7.62 BALL	7.62 MIX	HOFF- MAN
COFT	12	0	0	0	0	0	0	0
GT I	2	0	0	0	236	0	0	0
GT II	2	0	0	0	182	0	118	0
GT III	2	0	10	154	26	0	236	0
GT IV	2	0	0	154	28	123	0	0
GT V	2	0	0	0	0	0	0	0
GT VI A/B	2	45	0	191	0	150	0	14
GT VII A/B	2	56	0	275	0	150	0	18
GT VIII A/B	2	63	0	125	0	75	0	21
Strategy		328	10	1798	944	996	708	106
Standard	126	0	558	56	396	0	42	
DODIC	B584	B472	A557	A555	A131	A143	L602	

## TRAINING STANDARD

- MK 19: 90% of gunners will meet standards within past 6 months.  
• 90% assistant gunners will meet standards within past 12 months.  
• Each gunner will participate in:
  - Squad LFX within past 3 months. Co or Bn FTX in past 6 months.
  - M240B MG: 90% of assigned M240B will qualify.
  - Machine gunners within past 6 months. Assistant Machine gunners within last year. Each gunner will participate in LFX within past 3 months. Platoon EXEVAL within past 6 months.
  - MG M2 HB: 90% of assigned will qualify:
  - Machine gunners within past 12 months. Assistant Machine gunners:
    - Record fire (10 meter) within the past 12 months. Completed all record fire requirements within the past 24 months. Each crew will participate in: LFX within past 6 months. Platoon EXEVAL within past 12 months.

Table 2-27 STRAC R&R Recon Trp HMMWV Scouts TRC



Decision

Qualification

HWWWW PLATOON



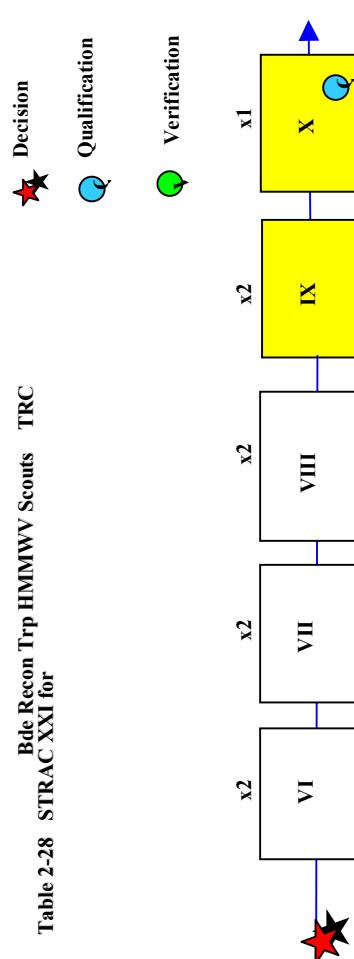
## Platoon Level Training Strategy

<b>Table</b>	<b>Freq</b>	<b>40MM</b>	<b>7.62 MIX</b>	<b>H OFF- MAN</b>
<b>IX</b>	<b>2</b>	<b>0</b>	<b>250</b>	<b>12</b>
<b>X</b>	<b>1</b>	<b>48</b>	<b>200</b>	<b>15</b>
<b>Strategy</b>		<b>48</b>	<b>700</b>	<b>39</b>
<b>Standard</b>		<b>48</b>	<b>200</b>	<b>15</b>
<b>DODIC</b>		<b>B584</b>	<b>A131</b>	<b>L602</b>

### TRAINING STANDARD

- MK 19: 90% of gunners will meet standards within past 6 months.
- 90% assistant gunners will meet standards within past 12 months.
- Each gunner will participate in:
  - Squad LFX within past 3 months. Co or Bn FTX in past 6 months.
  - M240B MG: 90% of assigned MG/AG will qualify:
  - Machine gunners within past 6 months. Assistant Machine gunners within last year. Each gunner will participate in LFX within past 3 months. Platoon EXEVAL within past 6 months.
  - MG M2 HB: 90% of assigned will qualify:
    - Machine gunners within past 12 months. Assistant Machine gunners:
    - Record fire (10 meter) within the past 12 months. Completed all record fire requirements within the past 24 months. Each crew will participate in: LFX within past 6 months. Platoon EXEVAL within past 12 months.

Table 2-28 STRAC XXI for  
Bde Recon Trp HMMWV Scouts TRC



HAWAII TROP

TROPH

**Table 2-29 BRIGADE RECON TROOP (HMMWV) (TRC A)**

Troop Level Annual Training Strategy							
Tabl	Fre	40M	CAL .50	CAL .50	7.62	7.62	H OFF MAN
CALFEX	1	2	10	0	10	0	1
SQ/PLT	4	0	10	0	45	0	0
SQ/PLT/CO	2	0	0	10	0	80	0
BN	1	0	0	10	0	80	0
EXEVAL	1	0	0	10	0	80	0
DRF	0	5	5	0	4	0	0
Strateg	2	50	40	190	320	1	
Standar	0	0	0	0	0	0	
DODIC	B58	A55	A59	A13	A11	L60	

### TRAINING STANDARD

- MK 19: 90% of gunners will meet standards within past 6 months.
- 90% assistant gunners will meet standards within past 12 months.
- Each gunner will participate in:
  - Squad LFX within past 3 months. Co or Bn FTX in past 6 months.
  - M240B MG: 90% of assigned MG/AG will qualify:
  - Machine gunners within past 6 months. Assistant Machine gunners within last year. Each gunner will participate in LFX within past 3 months. Platoon EXEVAL within past 6 months.
  - MG M2 HB: 90% of assigned will qualify:
    - Machine gunners within past 12 months. Assistant Machine gunners:
    - Record fire (10 meter) within the past 12 months. Completed all record fire requirements within the past 24 months. Each crew will participate in: LFX within past 6 months. Platoon EXEVAL within past 12 months.

**Table 2-29 STRAC XXI for Bde Recon Trp HMMWV Scouts TRC**

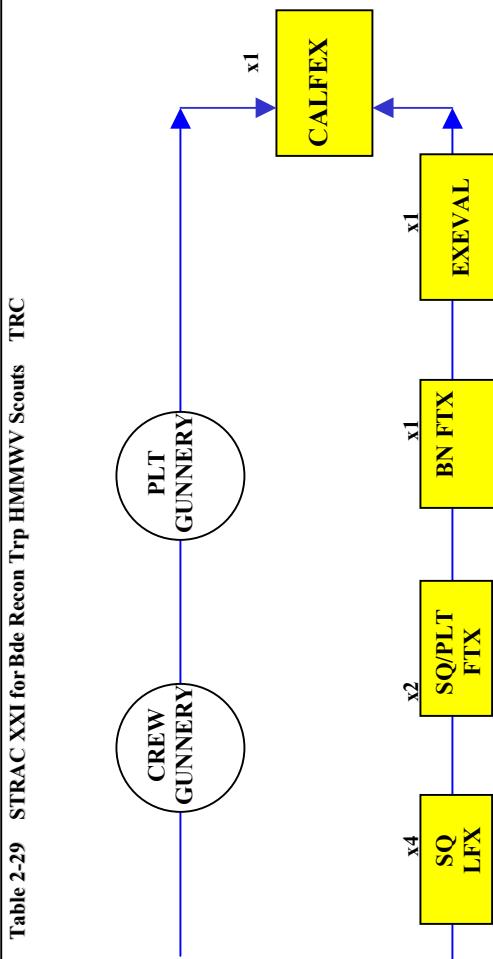


Table 2-30 BRIGADE RECON TROOP (HMMWV) (TRC A)

ACTIVE ARMY BRIGADE RECONNAISSANCE TROOP										
Annual Ammunition Requirements and Training Strategy for The M1114 HMMWV - TRC A										
Event/Table *	#	B584	B472	A557	A555	A598	A131	A143	A111	L602
COFT	12	0	0	0	0	0	0	0	0	0
GT I	2	0	0	0	236	0	0	0	0	0
GT II	2	0	0	0	182	0	0	118	0	0
GT III	2	0	10	154	26	0	0	236	0	0
GT IV	2	0	0	154	28	0	123	0	0	0
GT V	2	0	0	0	0	0	0	0	0	0
GT VI A/B	2	45	0	191	0	0	150	0	0	14
GT VII A/B	2	56	0	275	0	0	150	0	0	18
VIII A/B	2	63	0	125	0	0	75	0	0	21
TOW Qual	2	0	0	0	0	0	0	0	0	0
GT IX	2	0	0	0	0	0	250	0	0	12
GT IX (Device Based)	4	0	0	0	0	0	0	0	0	0
GT X	1	48	0	0	0	0	200	0	0	15
CALFEX	1	24	0	100	0	0	100	0	0	12
<b>UNIT TRAINING</b>										
Sqd/Pt LFX	4	0	0	100	0	0	450	0	0	0
Sqd/Pt/Co FTX(STX)	2	0	0	0	0	100	0	0	800	0
Bn FTX	1	0	0	0	0	100	0	0	800	0
EXEVAL (ARTEP)	1	0	0	0	0	100	0	0	800	0
DRF Prep Fire	0	5	0	50	0	0	40	0	0	0
<b>TOTALS PER WEAPON SYSTEM:</b>		400	10	2298	944	400	3596	708	3200	157
<b>TROOP TOTALS</b>		2400	60	13788	5664	2400	43152	8496	38400	1884

